

ABSTRACT

Low-melting point metallic material is designed to be able to melt with an
5 inclined melting cylinder installed in the condition of combining an injection
member with an agitating member therein, and a molten metal is designed to be
able to weigh and inject by a plunger, whereby molding accuracy and efficiency
can be improved more than a die-cast. A injection mechanism 2 is constituted
10 by a melting cylinder 11 which a weighing chamber 17 communicating with a
nozzle member 15 is provided on the inside of the tip, agitating and injection
means provided in the combined condition in the melting cylinder so as to rotate
or, advance or retreat freely and a device driving agitating and injection means,
which is arranged on an rear-end side of the melting cylinder. The injection
15 mechanism 2 is provided obliquely in a manner that a nozzle member side is
directed in a downward direction to a mold-clamping mechanism 1. The
agitating and injection means is constituted by an agitating member 24 in which
agitating wings having a plurality of stripes with an external diameter
approximately equal to an inner diameter of the melting cylinder are formed
20 intermittently on an outer periphery of a tip portion of a hollow shaft portion 23
having a through-hole at the central position and an injection plunger 30
attached unitarily to a tip of an injection rod 29 inserted into the through-hole
and provided slidably freely on a central position of the agitating member 21
and provided so as to insert into the weighing chamber 17 freely.